

Active Recombinant Human ST14 Protein, His-tagged

Cat. No. ST14-03H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human matriptase (aa 596-855) fused at the N-terminus to a His-tag.
Species	Human
ProteinLength	596-855 a.a.
Description	The protein encoded by this gene is an epithelial-derived, integral membrane serine protease. This protease forms a complex with the Kunitz-type serine protease inhibitor, HAI-1, and is found to be activated by sphingosine 1-phosphate. This protease has been shown to cleave and activate hepatocyte growth factor/scattering factor, and urokinase plasminogen activator, which suggest the function of this protease as an epithelial membrane activator for other proteases and latent growth factors. The expression of this protease has been associated with breast, colon, prostate, and ovarian tumors, which implicates its role in cancer invasion, and metastasis.
Form	Liquid
Bio-activity	~2.5U/ μ L. One unit is defined as the amount of enzyme that releases 10 pmol of AMC per min. at 37 centigrade in the presence of 50 μ M of Boc-Gln-Ala-Arg-AMC.
Molecular Mass	~25 kDa
Purity	$\geq$ 98% (SDS-PAGE)

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Stability	Stable for at least 6 months when stored at -20 centigrade. Do not store diluted solutions.
Storage	Short Term Storage: -20 centigrade Long Term Storage: -80 centigrade
Concentration	100nM
Storage Buffer	100mM TRIS, pH 8.0, containing 200mM sodium chloride, 1mM β -mercaptoethanol and 10% glycerol.
Shipping	Shipped on Dry Ice

GENE INFORMATION

Gene Name	ST14 ST14 transmembrane serine protease matriptase [Homo sapiens (human)]
Official Symbol	ST14
Synonyms	ST14; ST14 transmembrane serine protease matriptase; HAI; CAP3; MTSP1; SNC19; ARCI11; MT-SP1; PRSS14; TADG15; TMPRSS14; suppressor of tumorigenicity 14 protein; channel-activating protein 3; membrane-type serine protease 1; prostamin; serine protease 14; serine protease TADG-15; suppression of tumorigenicity 14 (colon carcinoma); suppression of tumorigenicity 14 (colon carcinoma, matriptase, epithin); tumor associated differentially expressed gene 15 protein; EC 3.4.21.109
Gene ID	6768
mRNA Refseq	NM_021978

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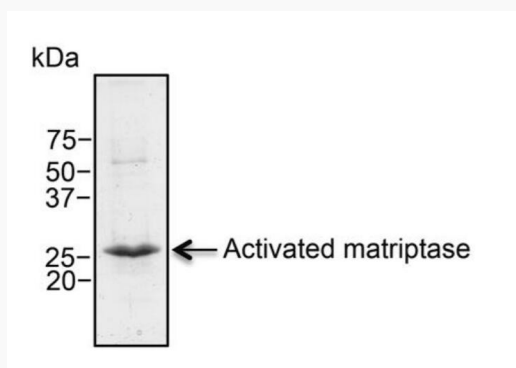
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Protein Refseq NP_068813

MIM 606797

UniProt ID Q9Y5Y6

SDS-PAGE



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